

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: PORTFOLIO

Report Number: P739887

Luminaire Tested: LD4D05D010-EU4DR150210IC9040-4LBCSSQMB

Issue Date: 2/2/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P739887  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2310-195-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 2/2/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LD4D05D010-EU4DR150210IC9040-4LBCSSQMB  
Description: 4 INCH SQAURE SHALLOW CAST MATTE BLACK TRIM, WITH 15° OPTIC  
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 637.4 lumens  
Efficiency: N/A  
Efficacy: 85.0 lumens/watt  
Spacing Criteria (0/90/45): 0.22 / 0.22 / 0.23  
Luminous Opening: Vertical Cylinder (Dia: 0.35' x H: 0.35')  
CIE Type: Direct

Input Watts (W): 7.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

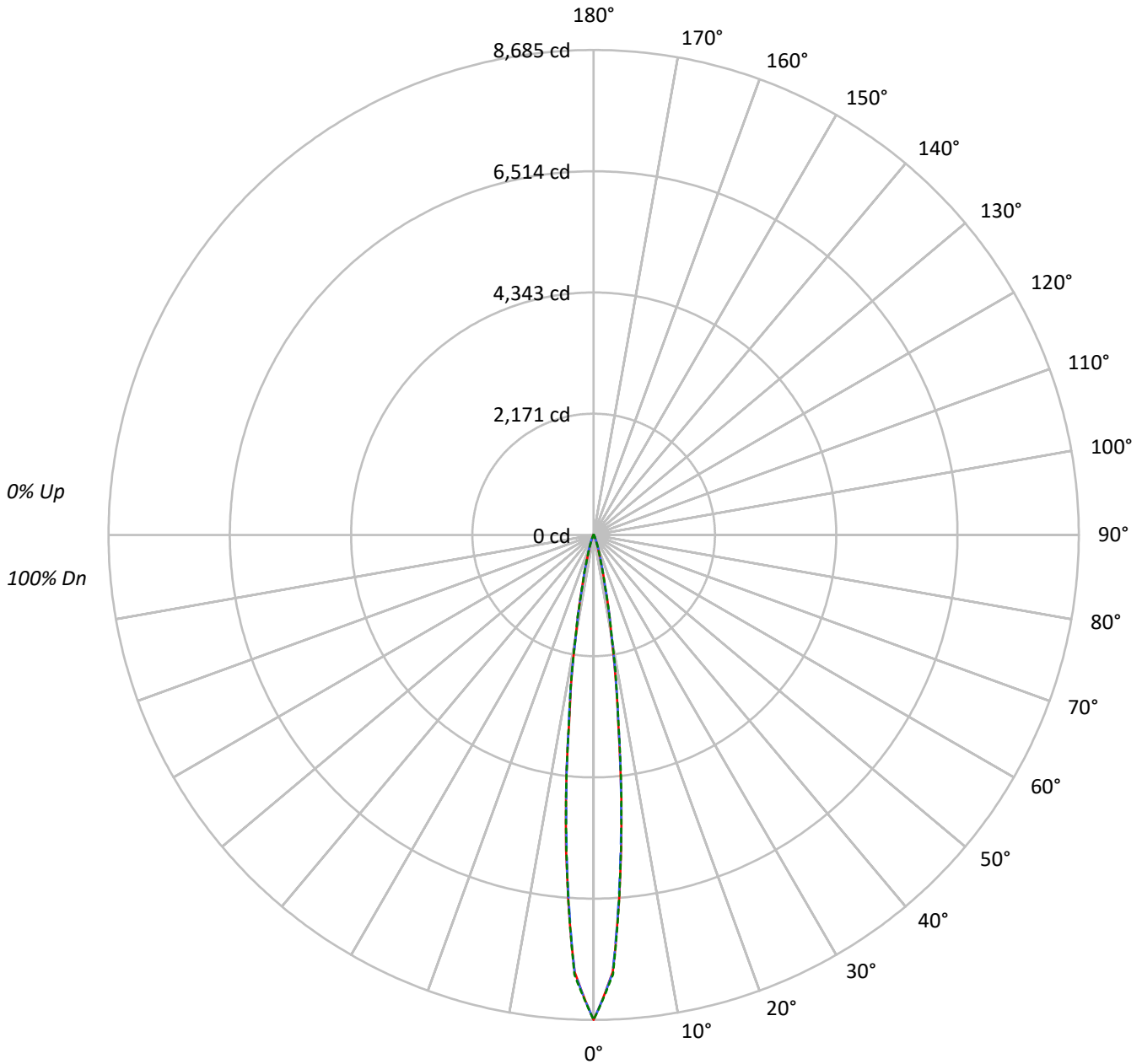


Downlight



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0													
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100													
1	116	114	112	111	113	112	110	109	108	107	106	104	103	103	101	100	100	98						98													
2	113	110	107	105	111	108	106	104	105	103	102	102	101	100	100	98	98	96						96													
3	110	106	103	101	108	105	102	100	103	100	99	100	99	97	98	97	96	94						94													
4	108	103	100	98	106	102	99	97	100	98	96	99	97	95	97	95	94	93						93													
5	106	101	98	95	104	100	97	95	99	96	94	97	95	93	96	94	92	92						92													
6	104	99	95	93	102	98	95	93	97	94	92	96	93	92	95	93	91	90						90													
7	102	97	94	91	101	96	93	91	95	93	91	94	92	90	93	91	90	89						89													
8	100	95	92	90	99	95	92	90	94	91	89	93	91	89	92	90	89	88						88													
9	99	93	90	88	98	93	90	88	92	90	88	92	89	88	91	89	88	87						87													
10	97	92	89	87	96	92	89	87	91	89	87	91	88	87	90	88	86	86						86													

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	977281	977281	977281
5°	574295	566856	571337
10°	171397	172600	175241
15°	42638	43463	42126
20°	12756	14769	13026
25°	4495	5726	4557
30°	1655	2172	1677
35°	828	937	799
40°	526	575	526
45°	385	413	385
50°	306	306	306
55°	258	258	258
60°	204	204	204
65°	157	157	157
70°	132	132	132
75°	83	83	113
80°	55	55	55
85°	33	33	33

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 45°

Vertical Angle: 45°

Luminance: 413 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.4	64.9
10°-20°	170.1	26.7
20°-30°	33.8	5.3
30°-40°	8.4	1.3
40°-50°	4.4	0.7
50°-60°	3.3	0.5
60°-70°	2.3	0.4
70°-80°	1.3	0.2
80°-90°	0.4	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	617.3	96.8
0°-40°	625.7	98.2
0°-60°	633.4	99.4
0°-90°	637.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	637.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8685	8685	8685	8685	8685	
5°	5651	5593	5578	5616	5622	413
15°	491	500	500	492	485	168
25°	58	65	74	65	58	30
35°	11	12	13	12	11	8
45°	6	6	6	6	6	4
55°	4	4	4	4	4	3
65°	2	2	2	2	2	2
75°	1	1	1	1	2	1
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8685.4	8685.4	8685.4	8685.4	8685.4
2.5°	7834.6	7841.2	7843.7	7851.5	7880.1
5°	5650.9	5592.8	5577.7	5616.3	5621.8
7.5°	3347.4	3359.1	3402.2	3411.7	3377.2
10°	1836.9	1852.0	1849.8	1863.0	1878.1
12.5°	939.4	927.7	924.0	939.1	918.1
15°	490.9	500.0	500.4	491.6	485.0
17.5°	264.0	274.7	292.3	278.0	255.9
20°	155.9	165.5	180.5	168.8	159.2
22.5°	96.3	104.1	114.7	105.5	97.8
25°	57.7	65.4	73.5	65.1	58.5
27.5°	34.2	40.8	46.0	40.4	33.8
30°	22.1	25.7	29.0	25.4	22.4
32.5°	15.4	16.9	18.4	16.9	15.4
35°	11.4	12.1	12.9	12.1	11.0
37.5°	8.8	9.6	9.9	9.2	8.5
40°	7.4	7.7	8.1	7.7	7.4
42.5°	6.3	6.6	6.6	6.6	6.3
45°	5.5	5.5	5.9	5.5	5.5
47.5°	4.8	4.8	5.1	4.8	4.8
50°	4.4	4.4	4.4	4.4	4.4
52.5°	4.0	4.0	4.0	4.0	4.0
55°	3.7	3.7	3.7	3.7	3.7
57.5°	3.3	3.3	3.3	3.3	3.3
60°	2.9	2.9	2.9	2.9	2.9
62.5°	2.6	2.6	2.6	2.6	2.6
65°	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2
70°	1.8	1.8	1.8	1.8	1.8
72.5°	1.5	1.5	1.5	1.5	1.5
75°	1.1	1.1	1.1	1.1	1.5
77.5°	1.1	1.1	1.1	1.1	1.1
80°	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0

Signify Classified - Internal  
Cooper Lighting Solutions Photometric Lab  
1121 Highway 74 South  
Peachtree City, GA 30269

Scaled Data Report



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Scaled Data Report







— 0°-180°    - - 45°-225°    - - - 90°-270°

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